

Replacement of Three Bridges over Maryland 295

Annapolis Road



Maisel Street



Waterview Avenue



PUBLIC MEETING
November 14, 2018



Agenda



- ▶ **Welcome & Introductions**
 - Sandra Matier, Baltimore City DOT
 - Tony Grant, Baltimore City DOT
- ▶ **Project Overview – Robert Healy, RK&K**
- ▶ **Maintenance of Traffic – Scott Crumley, RK&K**
- ▶ **Questions & Answers**



Waterview Avenue Bridge



Maisel Street Bridge



Introductions



- ▶ **Sandra Matier**
 - **Community Liaison, Baltimore City DOT**
- ▶ **Tony Grant**
 - **Design Project Manager, Baltimore City DOT**
- ▶ **Robert Healy, PE**
 - **Consultant Design Project Manager, RK&K**
- ▶ **Scott Crumley, PE, PTOE**
 - **Consultant Maintenance of Traffic Lead, RK&K**



Project Overview



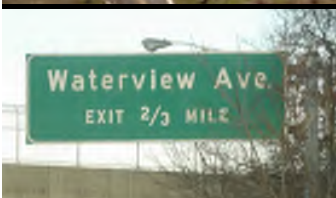
- ▶ Maisel Street Pedestrian Bridge



- ▶ Annapolis Road Bridge



- ▶ Waterview Avenue Bridge



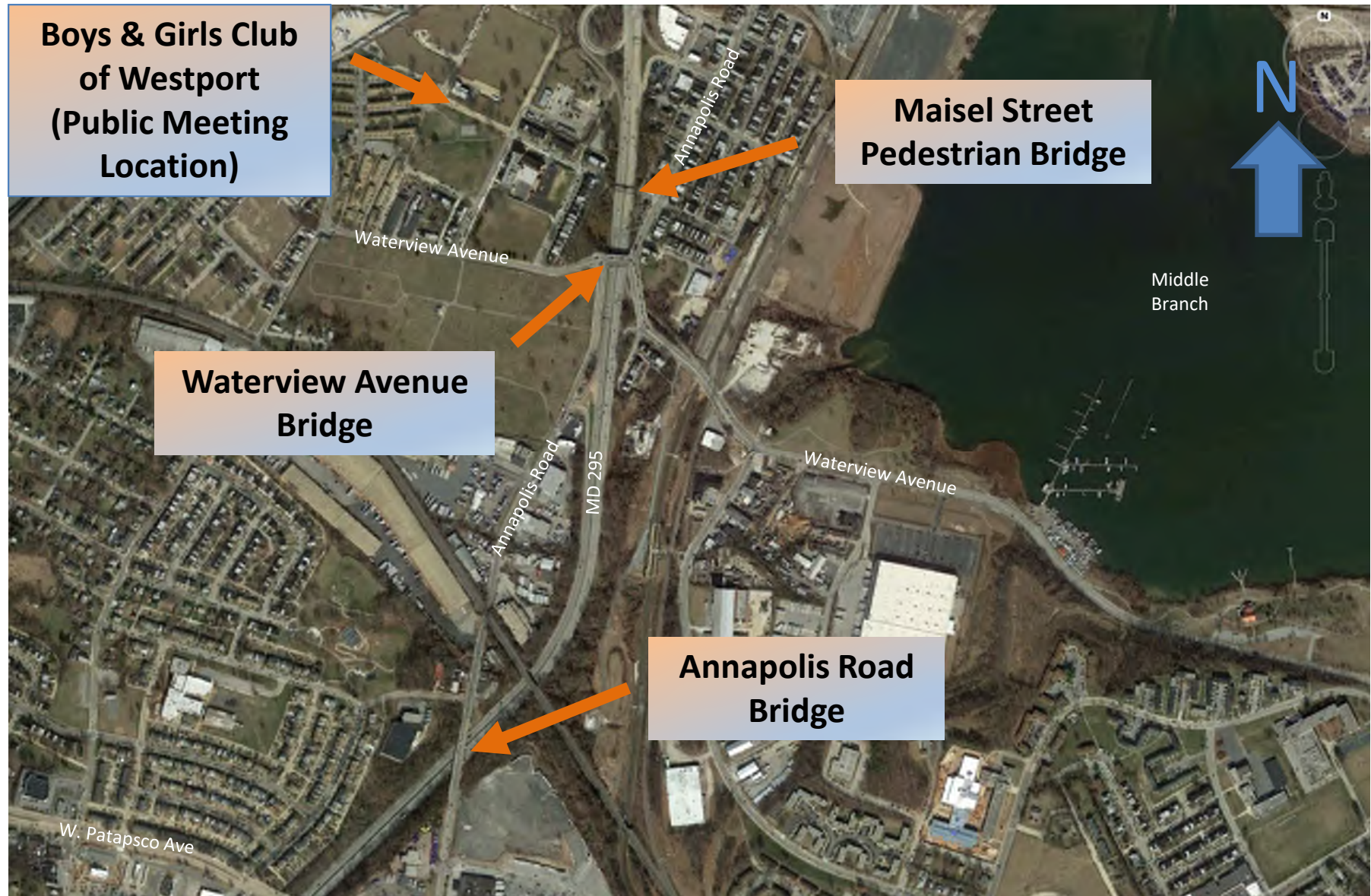
- ▶ Corridor-Wide Guide Sign Replacement



- ▶ Annapolis Road Resurfacing



Project Location Map



Project Background



- ▶ Previous public meeting held in October 2017
- ▶ Since then....
 - Project has been advertised and the Construction Contract awarded.
 - Wagman Heavy Civil, Inc. will be the contractor.



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[illegible]

Maisel Street Pedestrian Bridge over MD 295



Public Meeting – Replacement of Three Bridges Over Maryland 295
November 14, 2018

Maisel Street Pedestrian Bridge over MD 295



Scope of Work

- ▶ Removal and reconstruction from the foundations up
- ▶ 8'-0" proposed clear width (2'-0" wider than existing)
- ▶ Steel beams with a concrete deck
- ▶ Artistic fencing
- ▶ Form lined abutments to match existing stone look
- ▶ Landscaping improvement on both ends
- ▶ Construction is planned to start in Summer of 2021 and will be completed in about 10 months



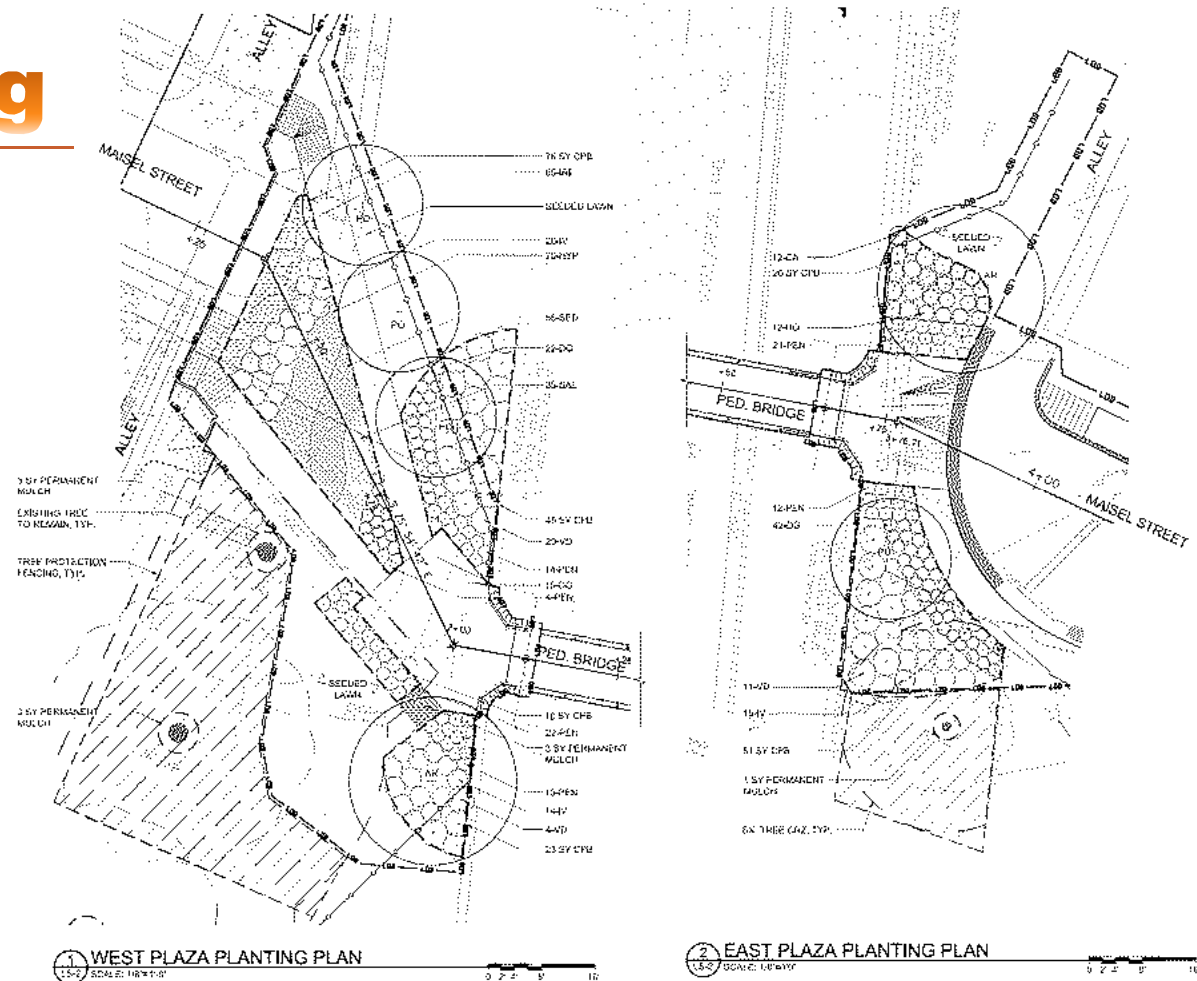
Artistic Fencing

[illegible]

Maisel Street Pedestrian Bridge over MD 295



Enhanced Landscaping



Maisel Street Pedestrian Bridge over MD 295



Proposed Bridge



Annapolis Road Bridge over MD 295



Public Meeting – Replacement of Three Bridges Over Maryland 295
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Annapolis Road Bridge over MD 295



Scope of Work

- ▶ Replacement in-kind
- ▶ Concrete beams with decorative façade panels
- ▶ Decorative fence (modeled after York Road over I-695)
- ▶ Decorative light poles
- ▶ Form lined concrete substructure and superstructure façade
- ▶ Construction is planned to start in Winter 2019 and will be completed in about 2 years and 4 months



Annapolis Road Bridge over MD 295

Proposed Bridge



Annapolis Road Bridge over MD 295



Proposed Bridge



Annapolis Road Bridge over MD 295

Proposed Bridge



Decorative Fence

[illegible]

Technical drawing of a bridge cross-section. The drawing shows a multi-lane bridge with a total width of 48'-0" (OUT-TO-OUT). The roadway is 34'-0" wide. The bridge is supported by five piers, numbered 1 to 5. The piers are spaced at 10'-0" intervals. The bridge deck is made of prestressed concrete built-up steel (BUP) with a depth of 48" (TYP.). The bridge has a 2% slope. The drawing includes labels for various components: PARAPET (TYP.), SIDEWALK, BIKE LANE, LANE, CONSTRUCTION ANNAPOLIS ROAD & BRIDGE, 2 1/2" x 3" BEARING INCLUDES 1/2" INTEGRAL WEARING SURFACE (TYP. XXV), PRECAST CONCRETE FACED (TYP.), PRESTRESSED CONCRETE BUILT-UP STEEL (BUP) (TYP.), BUILT-UP STEEL ATTACHMENT (BY OTHERS), INTERMEDIATE DIAPHRAGM, ORNAMENTAL FINISH (TYP.), and SPACES @ 10'-0" ± 48'-0".



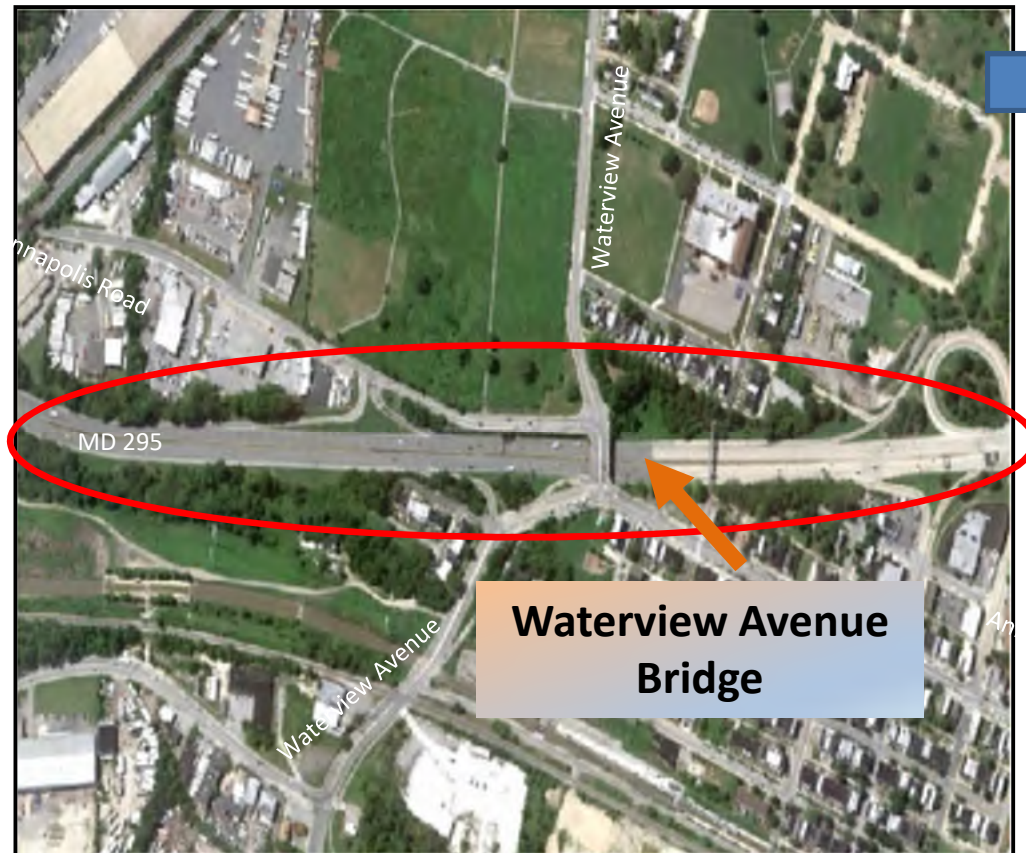
Annapolis Road Bridge over MD 295



Proposed Improvements



Waterview Avenue / Annapolis Road Bridge over MD 295



**Waterview Avenue
Bridge**



Waterview Avenue / Annapolis Road Bridge over MD 295



Proposed Improvements



Waterview Avenue / Annapolis Road Bridge over MD 295



Scope of Work

- ▶ Reconstruction of Bridge (Replacement In-Kind)
- ▶ Tunnel Removal and replacement with retaining wall
- ▶ Roadway Improvements on Annapolis Road
- ▶ Interchange Ramp Improvements / Auxiliary lane on MD 295



Waterview Avenue / Annapolis Road Bridge over MD 295



Scope of Work (continued)

- ▶ 10 foot sidewalk on the north side of the bridge
- ▶ Stone form liner finish on substructure to match existing
- ▶ Decorative Fence (modelled after York Road over I-695)
- ▶ Construction is planned to start in Winter 2019 and will be completed in about 3 years and 9 months



Waterview Avenue / Annapolis Road Bridge over MD 295



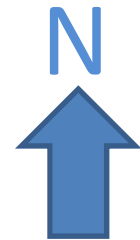
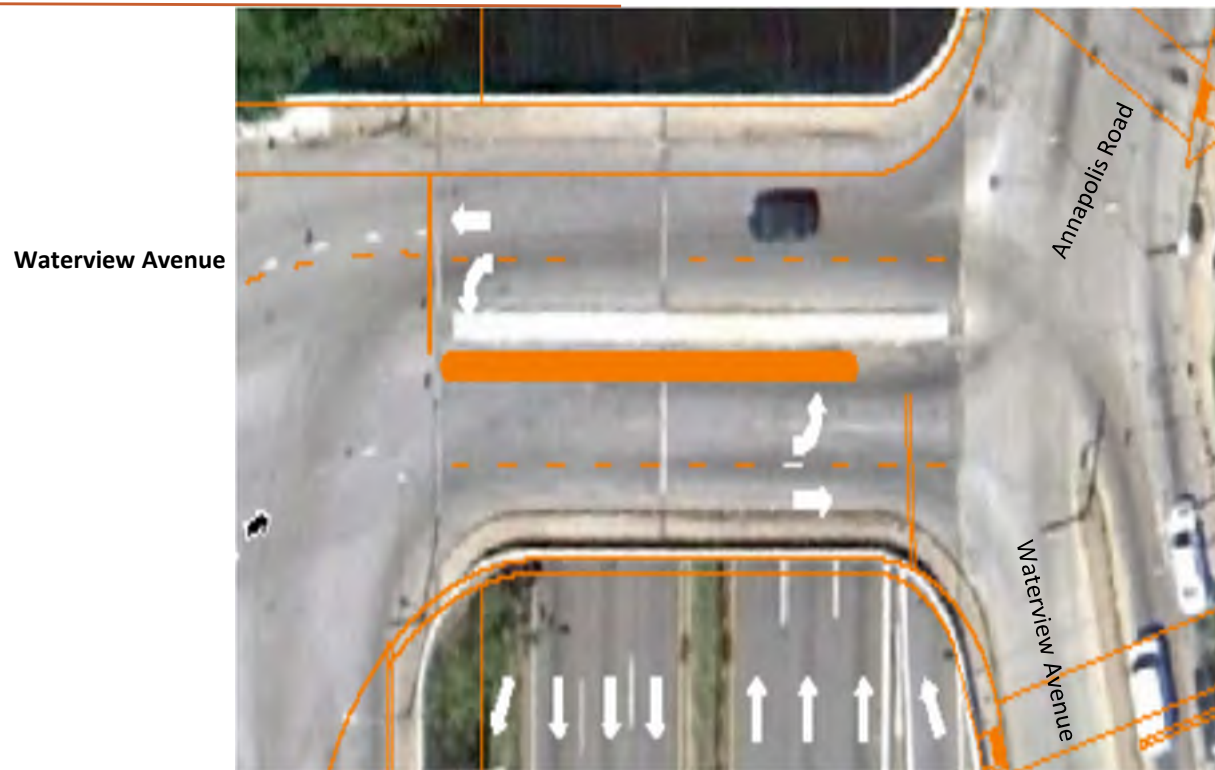
Existing Bridge Plan View



Waterview Avenue / Annapolis Road Bridge over MD 295



Proposed Bridge Plan View

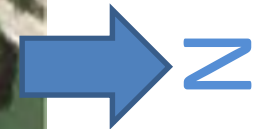




Waterview Avenue / Annapolis Road Bridge over MD 295



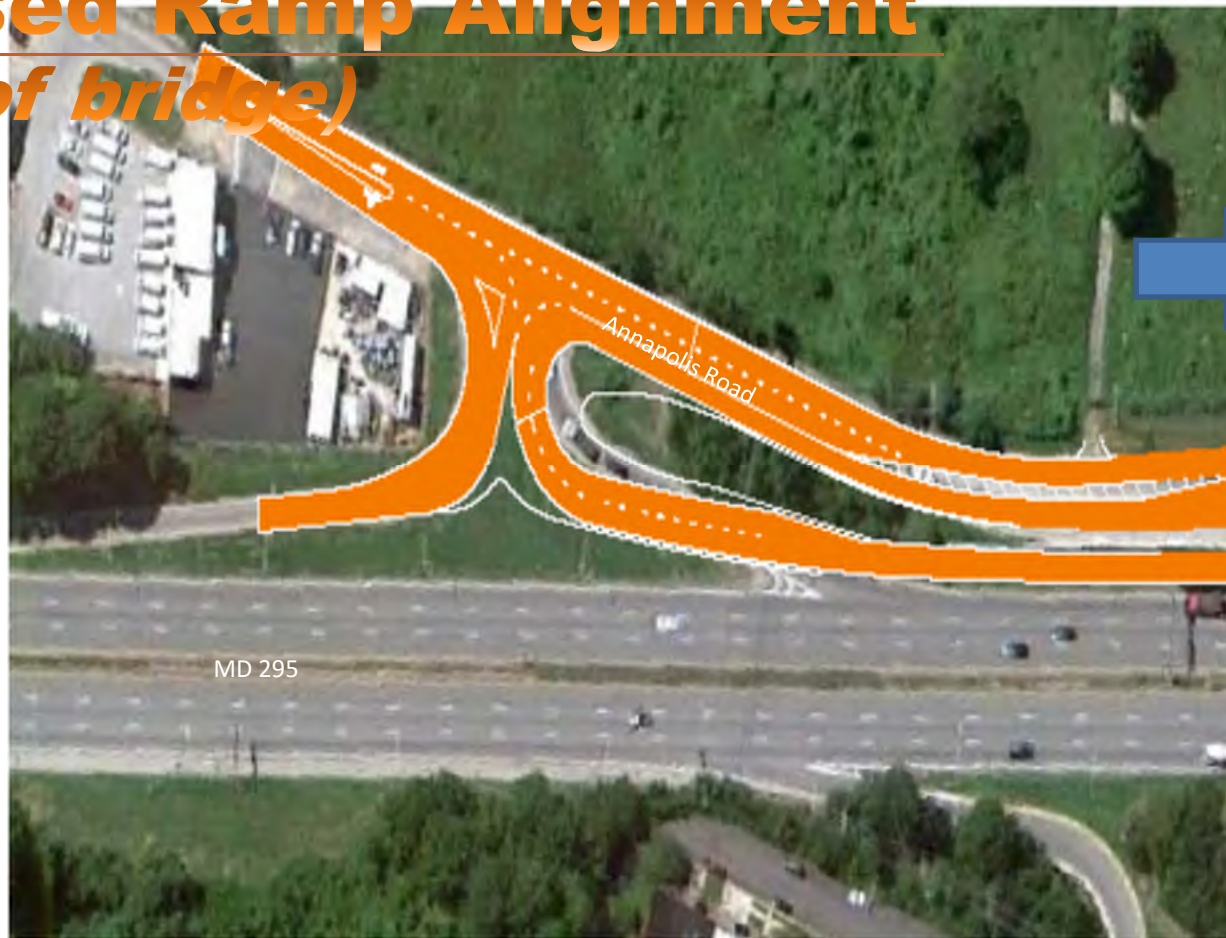
Proposed Ramp Alignment (North of bridge)



Waterview Avenue / Annapolis Road Bridge over MD 295



Proposed Ramp Alignment (South of bridge)

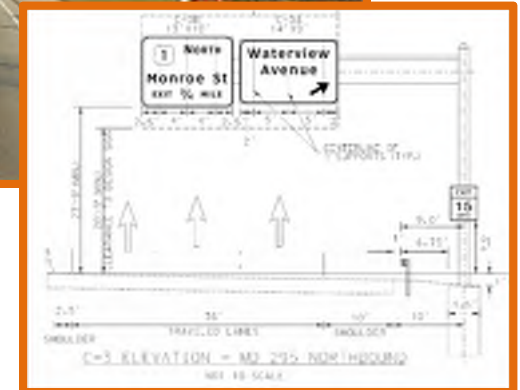
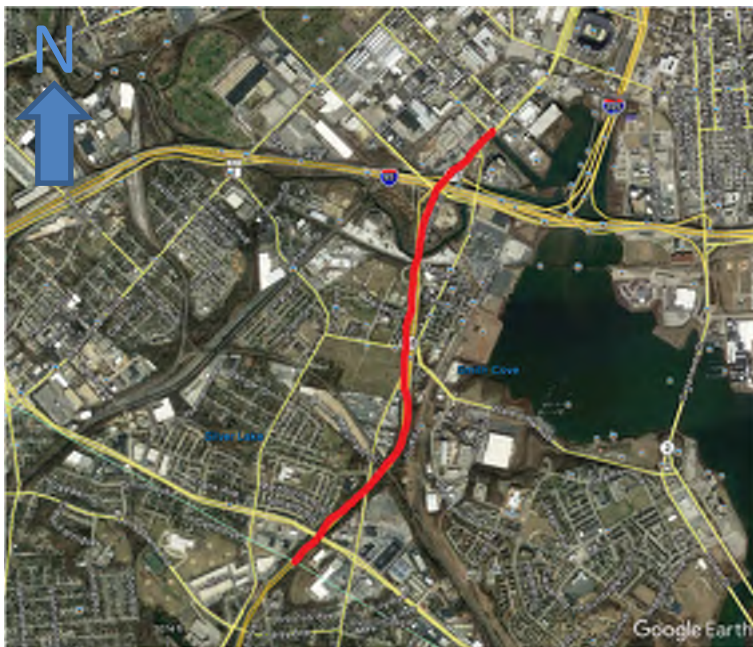


Guide Sign Replacement



► Scope: Bush Street to City-County Line

- Removal of 11 existing sign structures
- Construction of 5 new cantilever and 3 new overhead sign structures with upgraded sign panels



Annapolis Road Resurfacing



- **Scope: Patapsco Avenue to Waterview Avenue Bridge site**
 - Milling and resurfacing from gutter pan to gutter pan

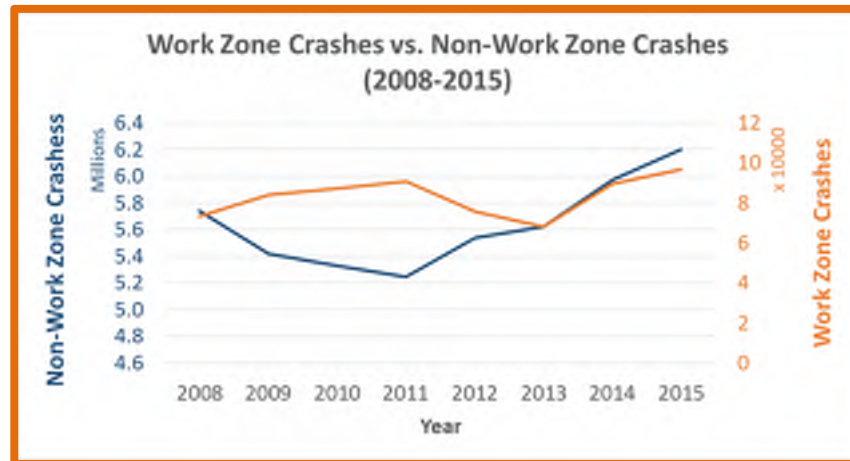


Maintenance of Traffic



► Goals

- Promote work zone safety
- Minimize vehicular and pedestrian work zone impacts while maximizing construction production
- Keep stakeholders aware of upcoming traffic switches and impacts



Maintenance of Traffic

Background



- ▶ **MOT Alternatives Analysis**
 - Analyzed and compared multiple MOT alternatives
 - Assessed Construction & User Costs
 - Selected alternative was most cost-effective with minimized impacts
- ▶ **Comprehensive Transportation Management Plan**
- ▶ **Maintenance of Traffic (MOT) Plans**
 - Site-Specific Traffic Control Plans, including fixing 35+ pedestrian ADA issues and deficiencies
 - Detour Plans



Maintenance of Traffic



Overview

- ▶ **Construction duration: 4 years**
 - **Winter 2019 to Winter 2023**
- ▶ **MD 295 – reduced from 3 to 2 lanes in each direction**
 - **Outside lane closed**
 - **Inside lane closed**
 - **Outside lane closed**
- ▶ **Annapolis Road Bridge – closure with detour**
- ▶ **Maisel Street Pedestrian Bridge – closure with detour**
- ▶ **Waterview Ave / Annapolis Rd Bridge – phased construction**
- ▶ **Guide Sign Replacement – off-peak, short-term lane closures except for lane reduction on SB Russell St near Bush St**





Maintenance of Traffic

Draft Schedule



Tenative Construction Schedule

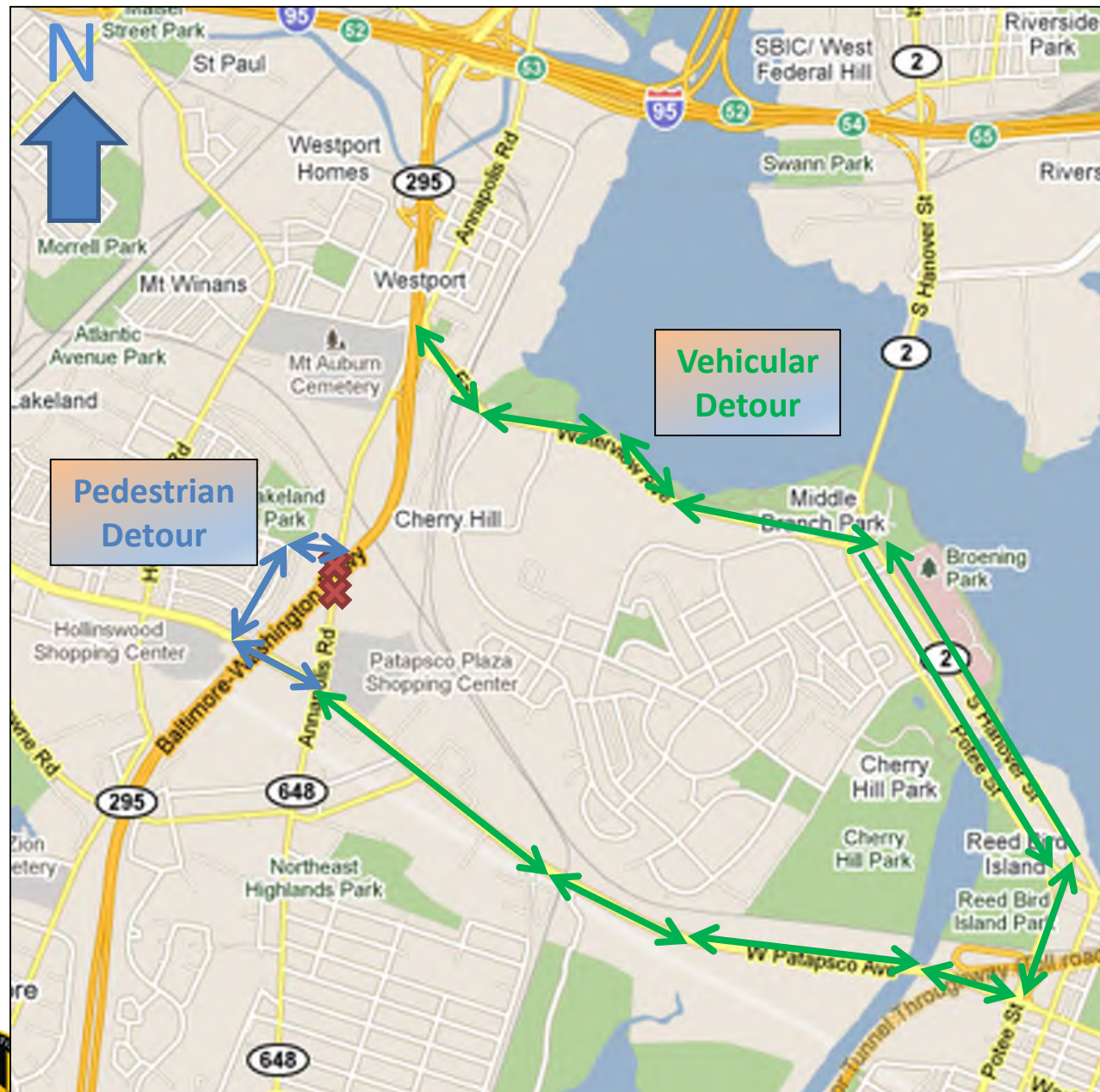
Phase	2019												2020												2021												2022											
Month	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Mobilization																																																
MD-295 Outside Lanes Closed																																																
MD-295 Inside Lanes Closed																																																
MD-295 Outside Lanes Closed																																																
Annapolis Road Bridge Closed																																																
Waterview Preliminary Activities																																																
Waterview North Half Closed																																																
Waterview South Half Closed																																																
Signage Wrap-Up																																																
Maisel Street Bridge Closed																																																

 = Bridge / Road Closed
 = Bridge / Road Open

All durations and timeframes are preliminary and subject to change



Annapolis Road Bridge Closure



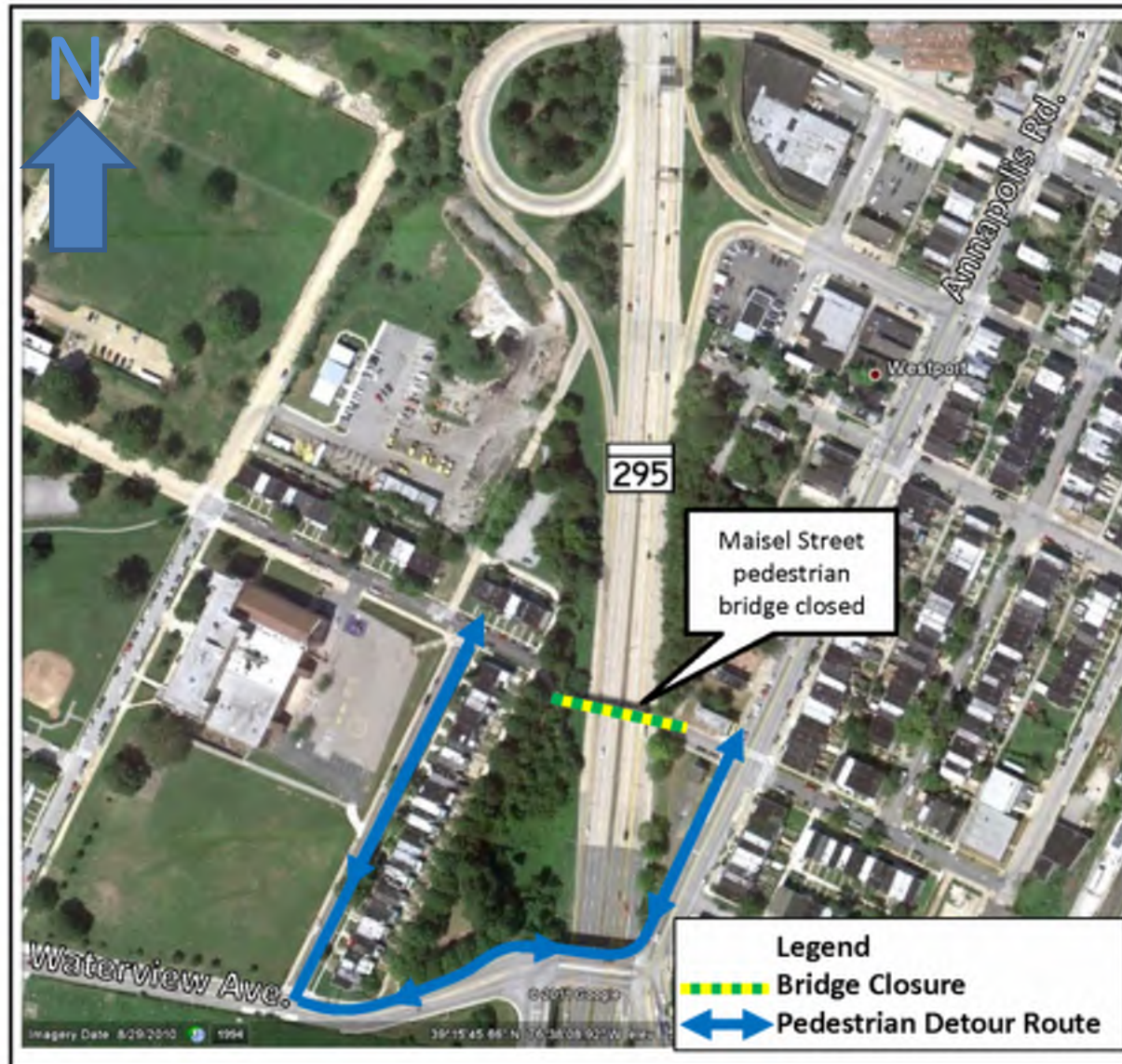
CLOSURE : Annapolis Road Bridge over MD 295

- ▶ Estimated to increase vehicular travel time by 5 to 7 minutes during peak periods
- ▶ Operational issues not anticipated, but will be closely monitored
- ▶ Traffic Signal timing may be adjusted to better accommodate detoured traffic

November 14, 2018

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Maisel Street Pedestrian Bridge Closure



CLOSURE : Maisel Street Pedestrian Bridge over MD 295

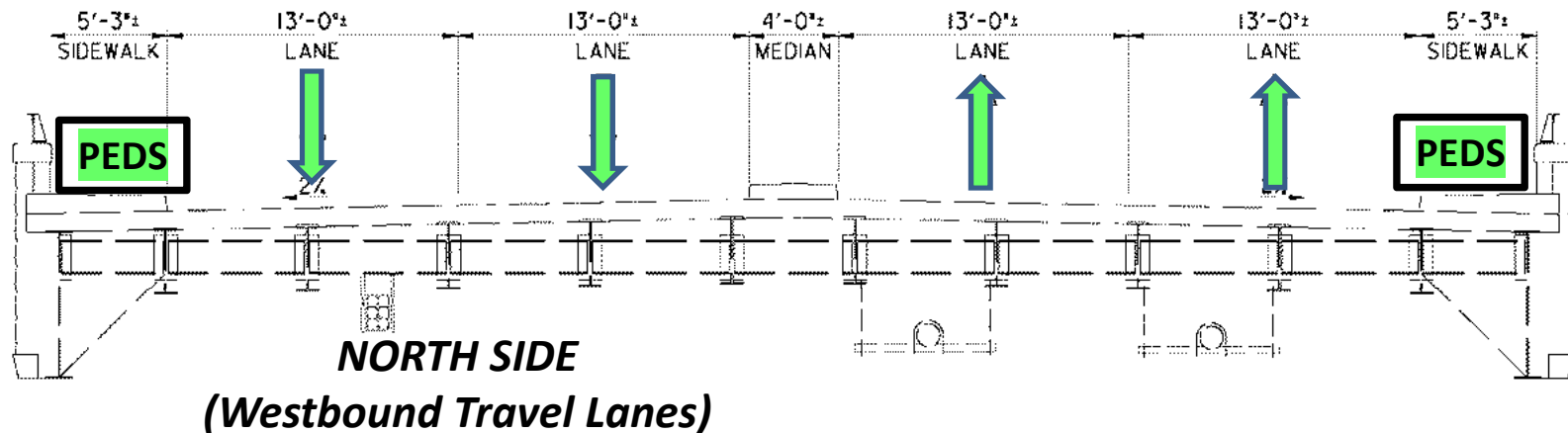
- ▶ Estimated to increase pedestrian travel time by 3 to 5 minutes
- ▶ Detour does not require pedestrians to cross Waterview Ave or Annapolis Rd
- ▶ Pedestrian ADA issues will be fixed prior to implementing detour



Waterview Ave / Annapolis Rd Bridge over MD 295



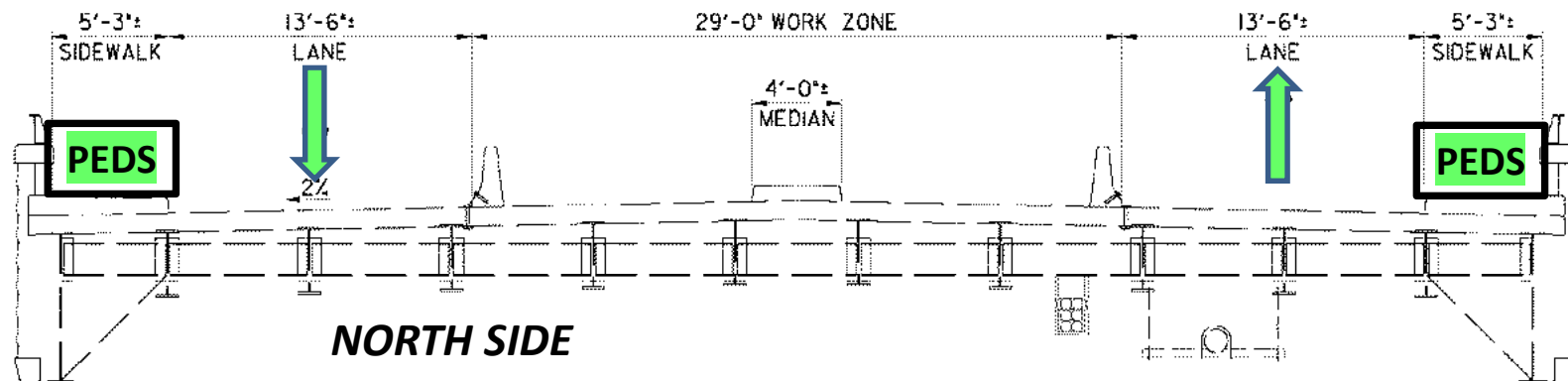
Phased Construction - Existing Condition



Waterview Ave / Annapolis Rd Bridge over MD 295



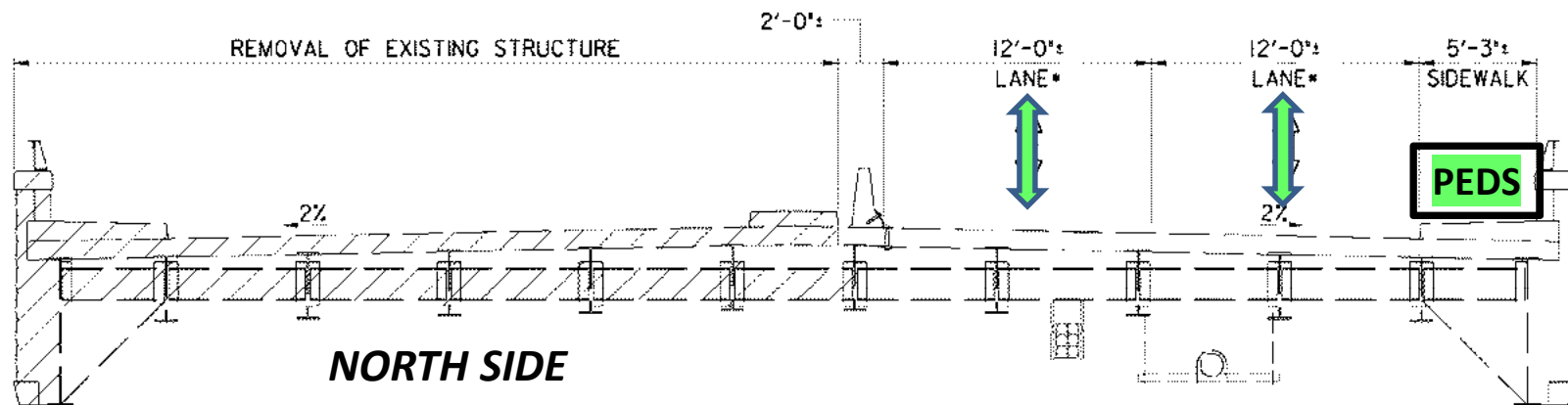
Phase 1



Waterview Ave / Annapolis Rd Bridge over MD 295



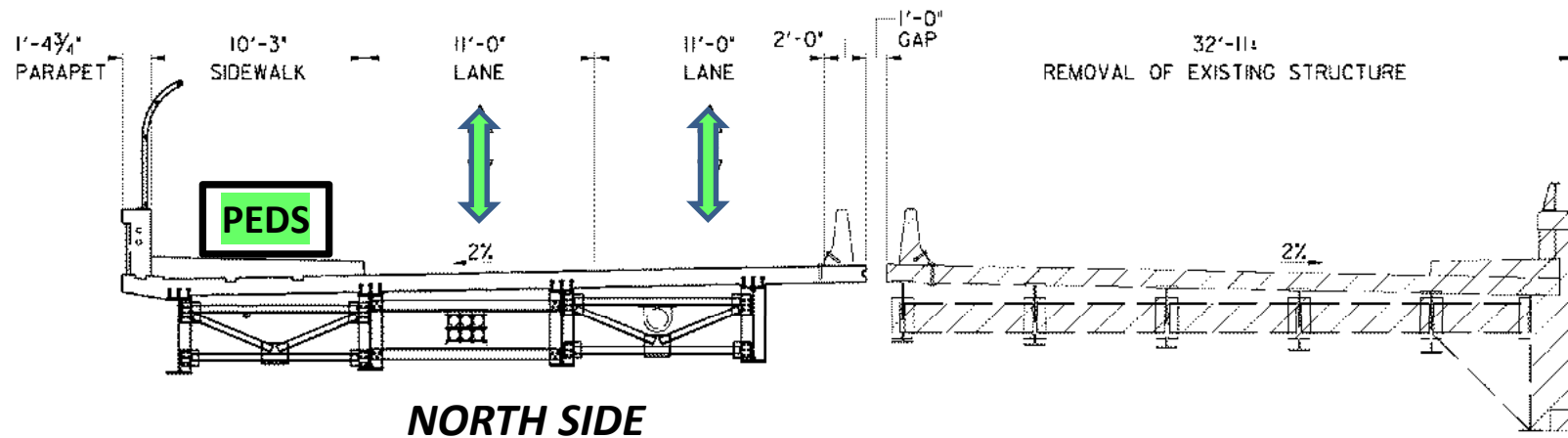
Phases 2 and 3



Waterview Ave / Annapolis Rd Bridge over MD 295



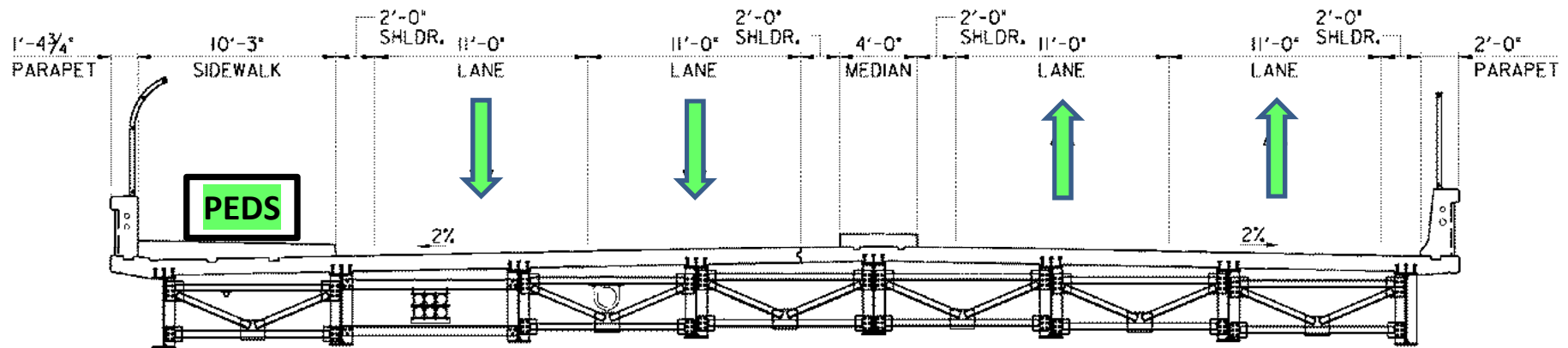
Phases 4 and 5



Waterview Ave / Annapolis Rd Bridge over MD 295




Final Traffic Pattern



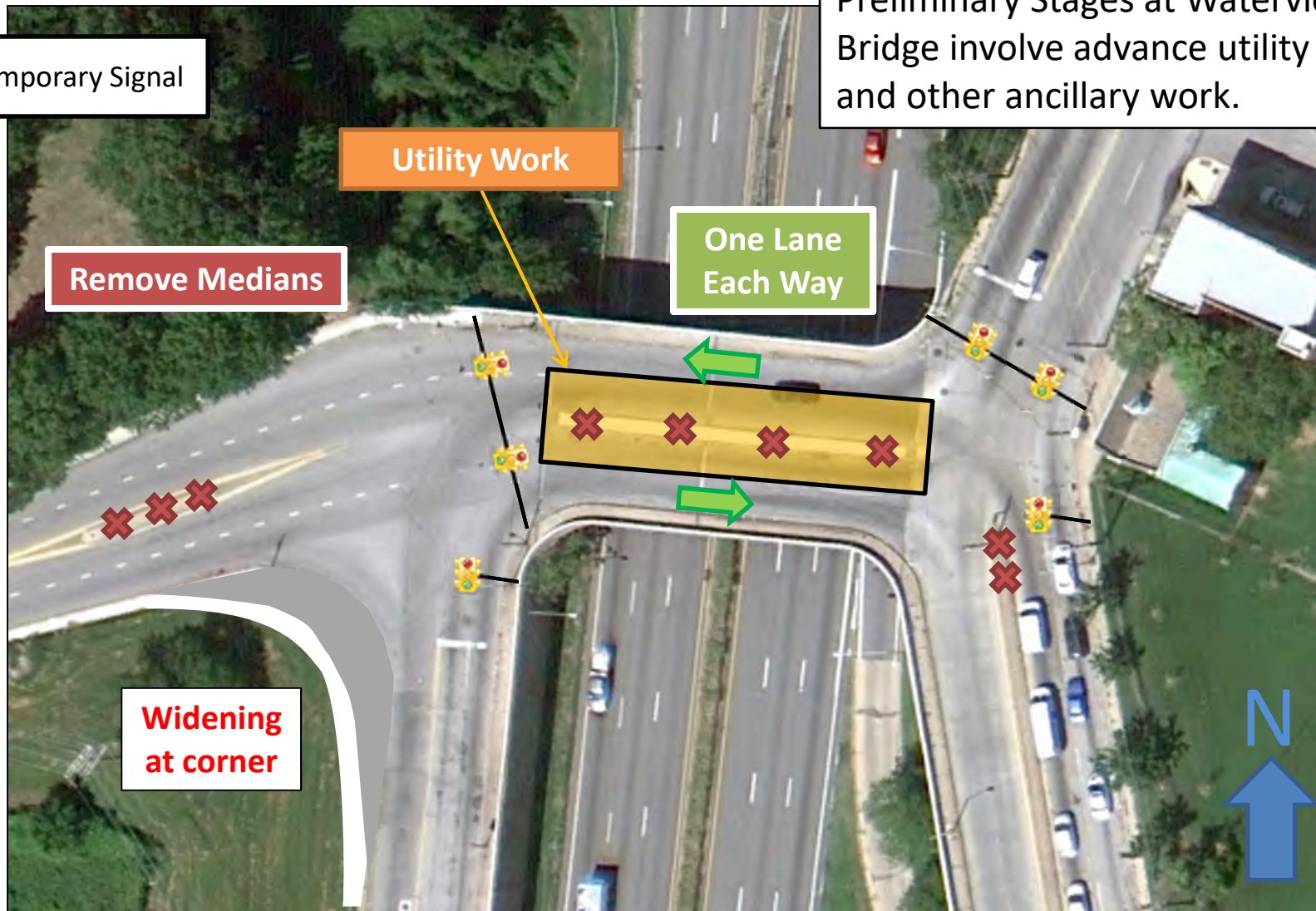
NORTH SIDE
(Westbound Travel Lanes)



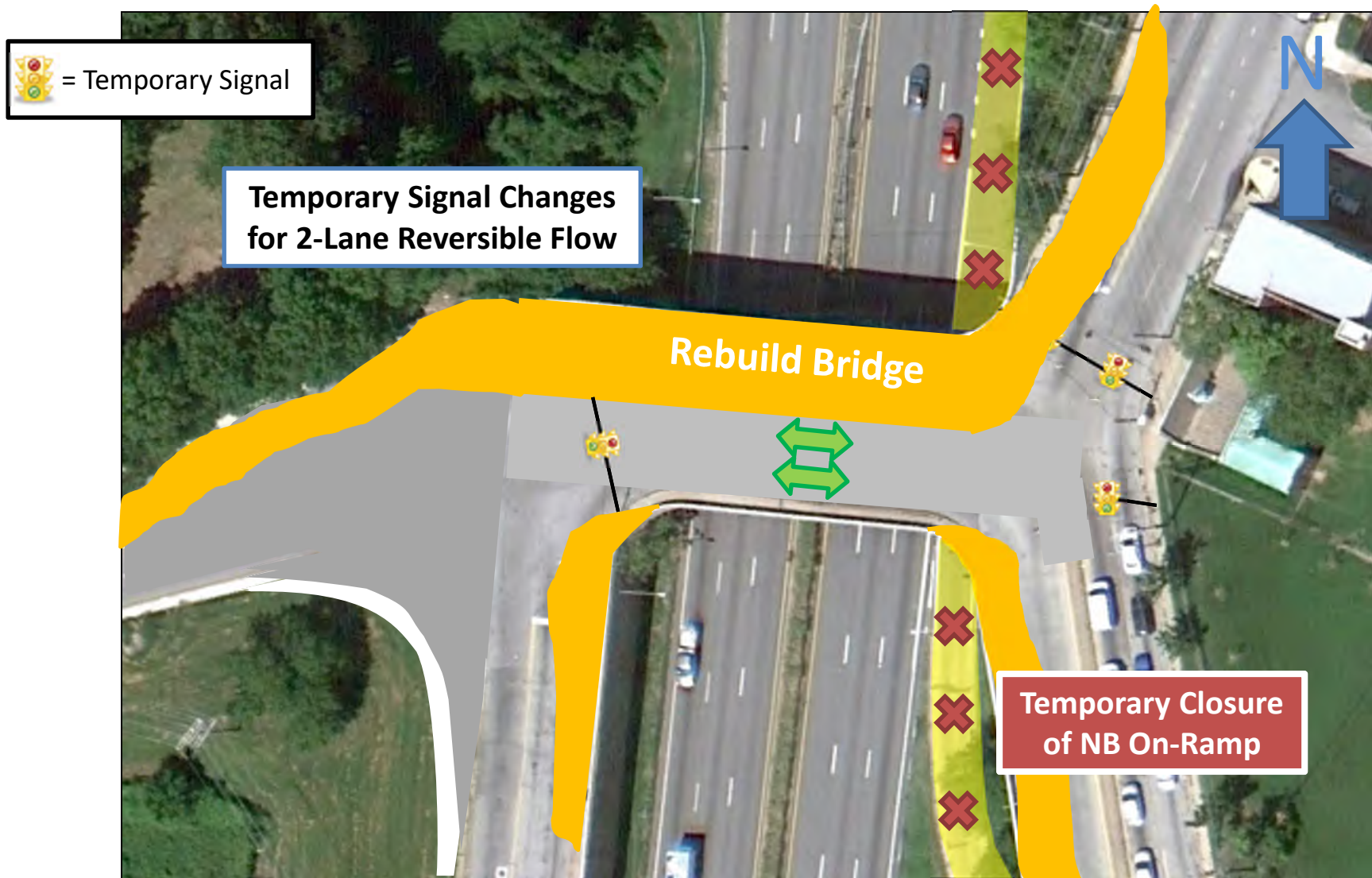
Waterview Ave Bridge – Phase I

 = Temporary Signal

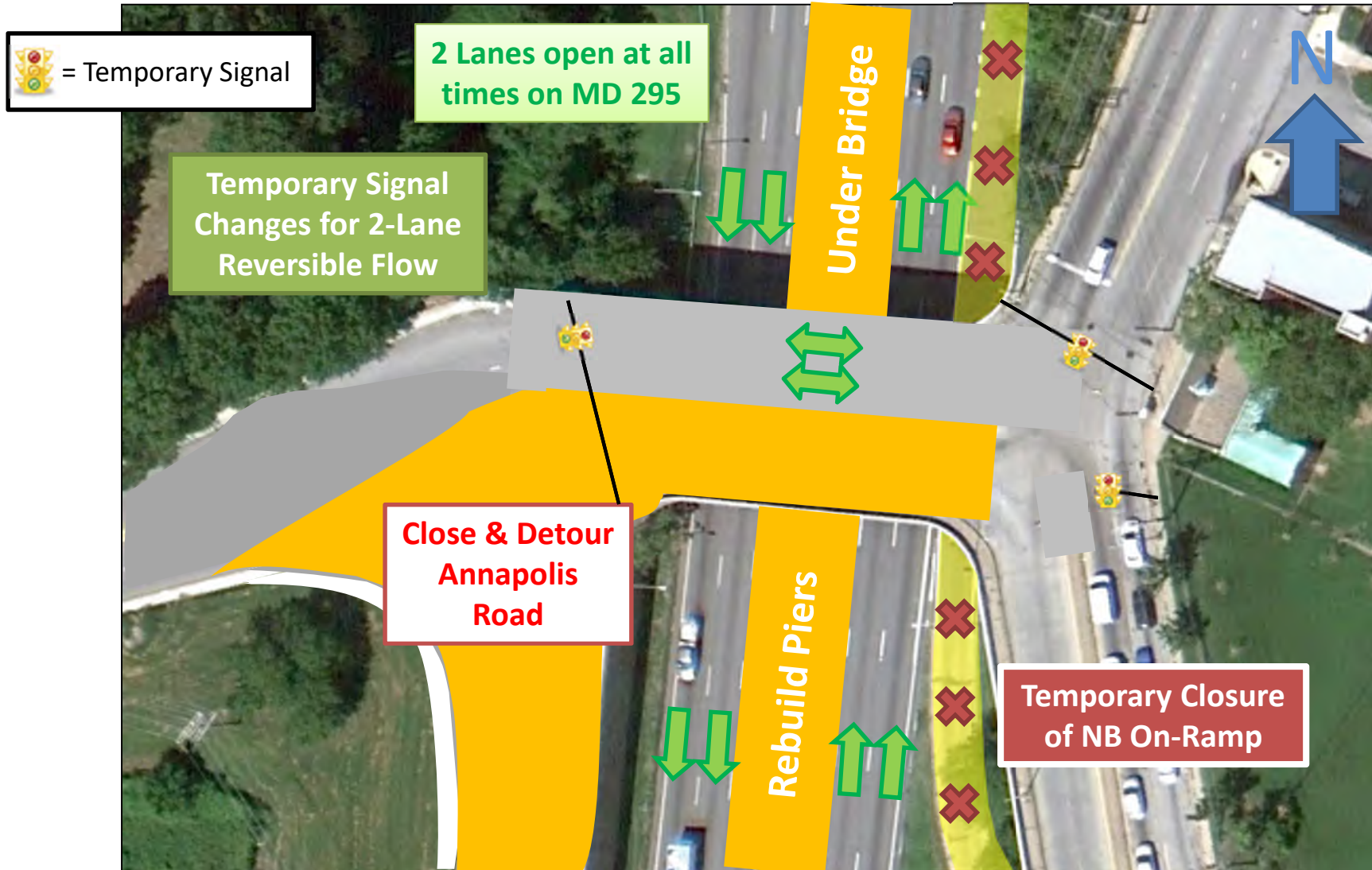
Preliminary Stages at Waterview Bridge involve advance utility and other ancillary work.



Waterview Ave Bridge – Phases 2 & 3

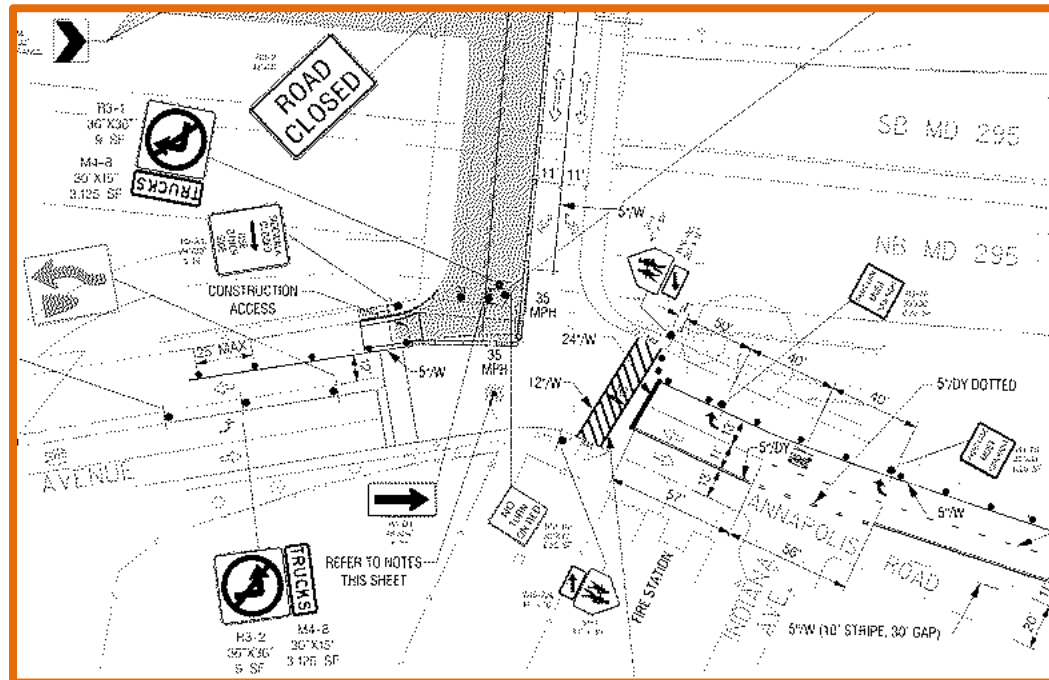


Waterview Ave Bridge – Phases 4 & 5



Additional Closures & Detours

- ▶ MD 295 short-term stoppages/closures & detours (overnight)
 - Bridge steel erection over MD 295, utility crossings, overhead sign structure installation, etc.
- ▶ Truck turn restrictions & detours
 - On and off the Waterview Ave Bridge near Fire House

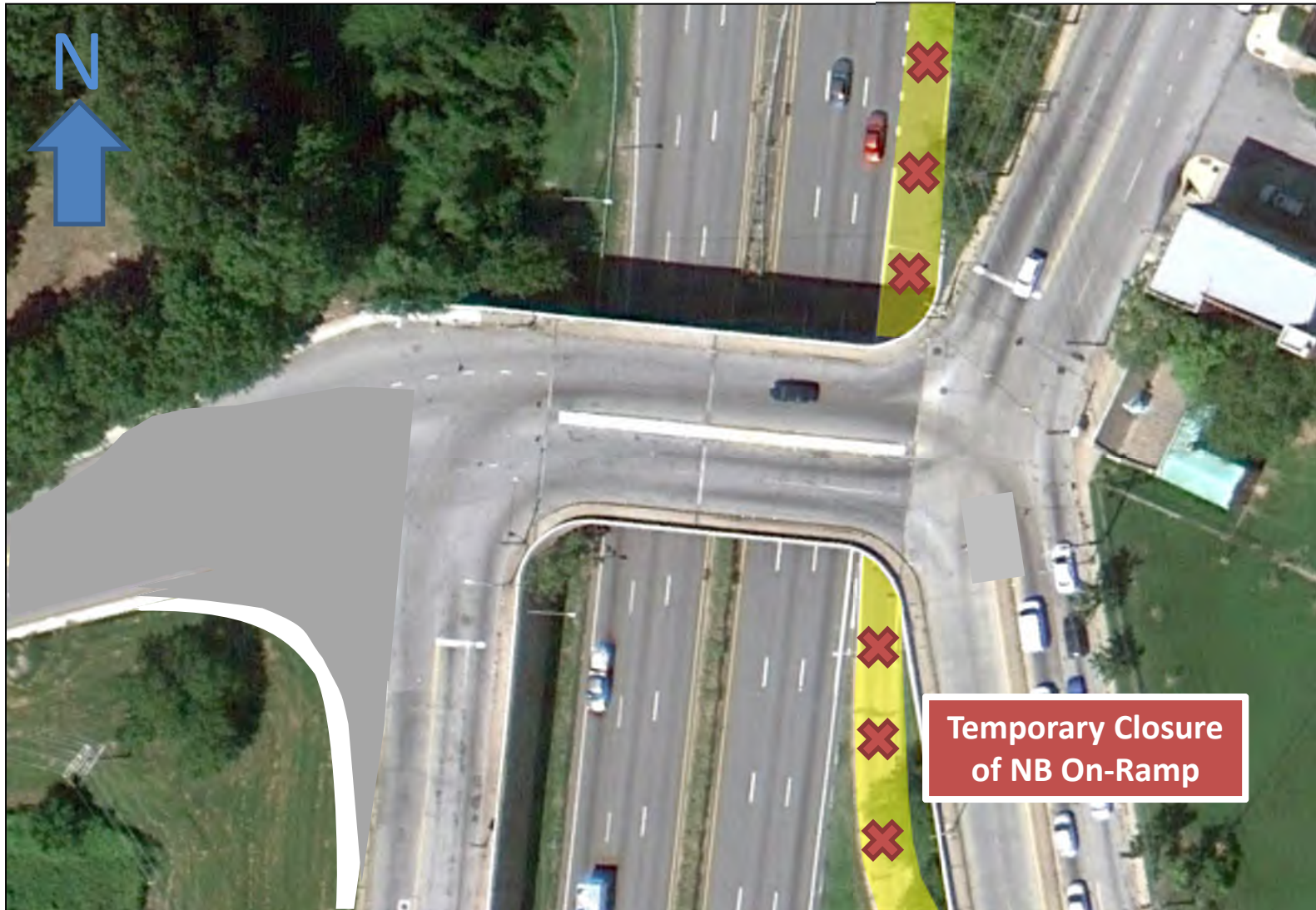


Additional Closures & Detours

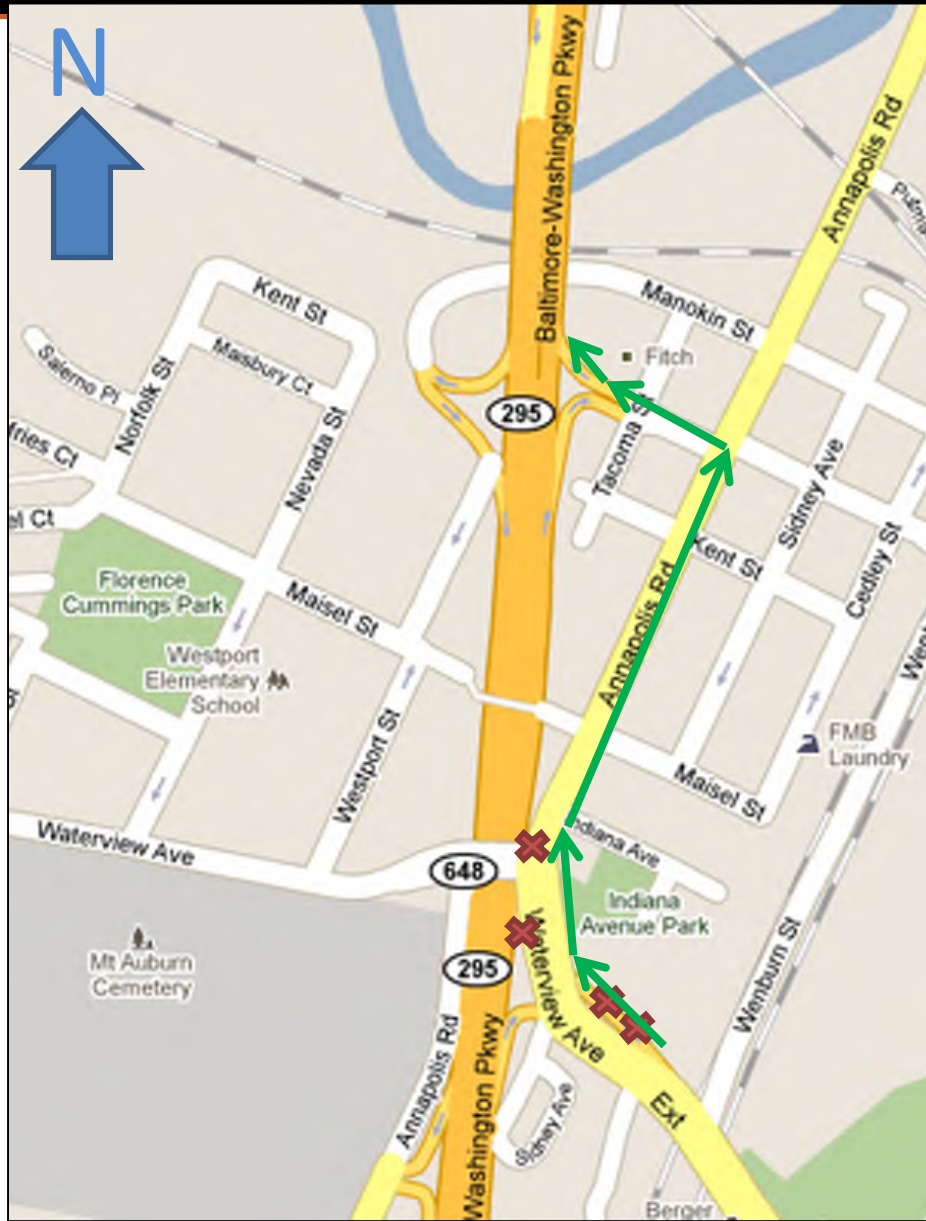
- ▶ Weekend closures & detours
 - Waterview Ave & Annapolis Rd near Fire House
- ▶ Long-term closures & detours
 - Westbound Waterview Ave Ramp to Northbound MD 295
 - Southbound MD 295 Ramp & Annapolis Rd



WB Waterview Ave Ramp Closure



WB Waterview Ave Ramp Closure

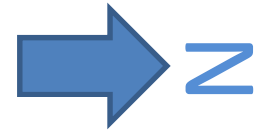
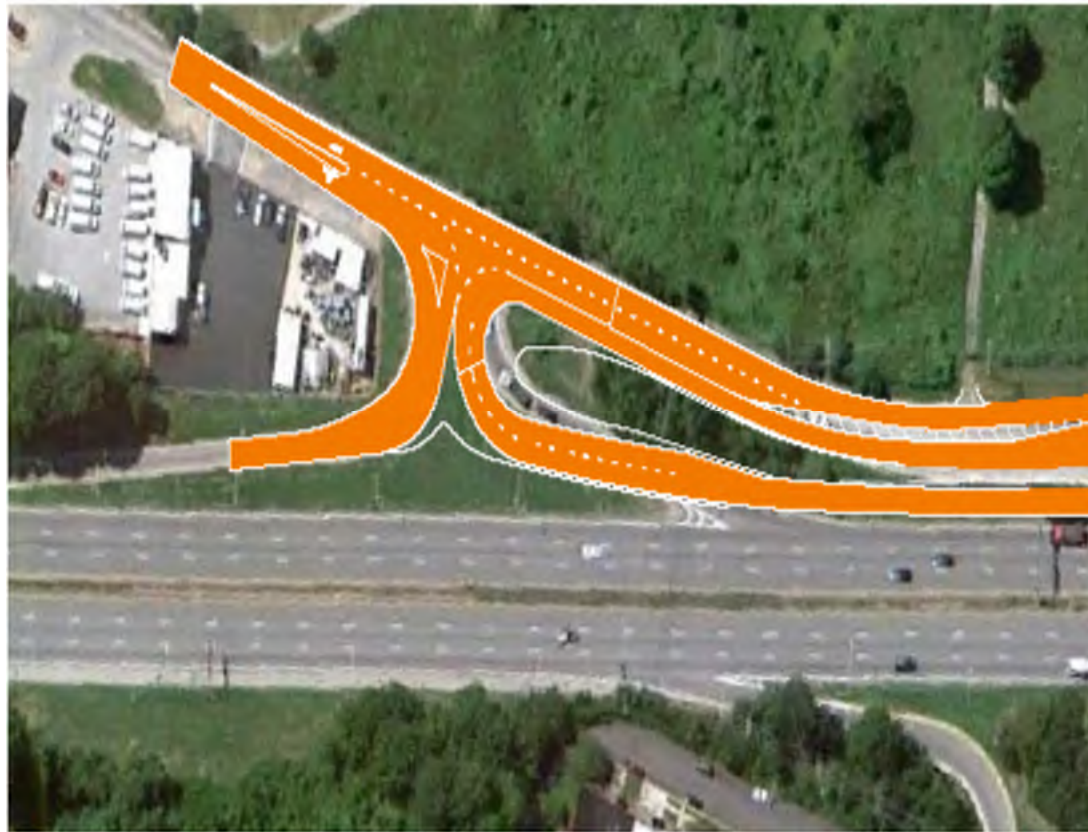


CLOSURE: Westbound Waterview Ave Ramp to Northbound MD 295

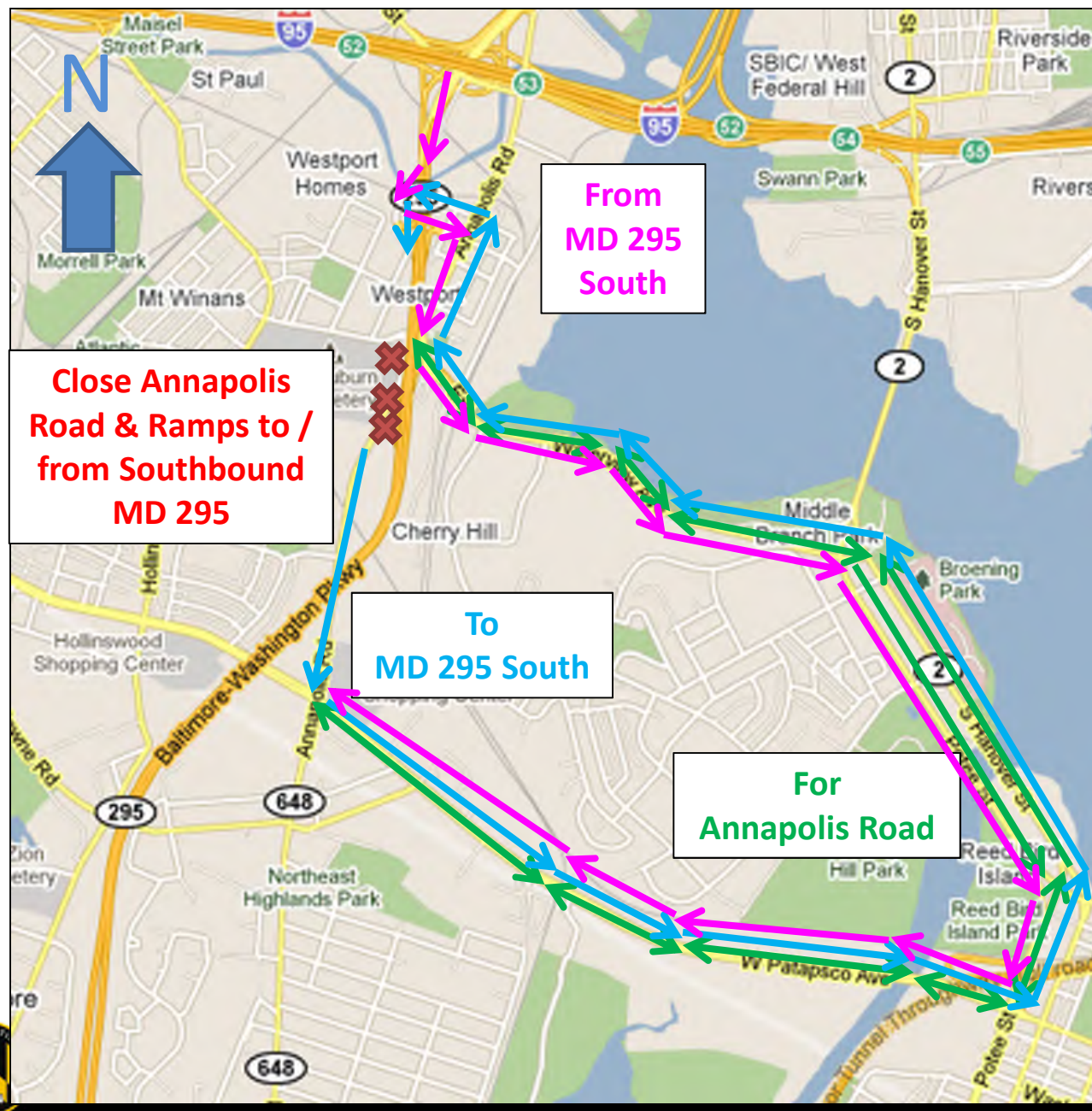
- ▶ Duration expected to be approximately 3 ½ years
- ▶ Estimated to increase vehicular travel time by 1 to 2 minutes during peak periods
- ▶ Operational issues not anticipated, but will be closely monitored
- ▶ Traffic Signal timing may be adjusted to better accommodate detoured traffic



SB MD 295 Ramp & Annapolis Rd Closure



SB MD 295 Ramp & Annapolis Rd Closure



CLOSURE: Southbound MD 295 Ramp and Annapolis Road

- ▶ Duration expected to be approximately 1 ½ years
- ▶ Estimated to increase vehicular travel time by 8 to 10 minutes during peak periods
- ▶ Traffic Signal timing may be adjusted to better accommodate detoured traffic



Maintenance of Traffic



Summary

- ▶ **Maintain 2 lanes in each direction of MD 295 during peak periods**
 - May be reduced to 1 lane during off-peak periods
- ▶ **Annapolis Road Bridge over MD 295 to be closed for vehicles and pedestrians for ~ 2 years 4 months**
 - Posted detour for motorists and pedestrians
- ▶ **Maisel Street Pedestrian Bridge over MD 295 to be closed for ~ 10 months**
 - Posted detour for motorists and pedestrians



Maintenance of Traffic



Summary

- ▶ Traffic on Waterview Ave Bridge over MD 295 will be maintained at all times with temporary signals
- ▶ Westbound Waterview Ave Ramp to northbound MD 295 to be closed for ~ 3 years 6 months
 - Posted detour for motorists
- ▶ Annapolis Rd and nearby southbound ramps to / from MD 295 to be closed for ~ 1 year 6 months
 - Posted detour for motorists



Maintenance of Traffic



Summary

- ▶ Extensive traffic analysis and constructability reviews to minimize work zone impacts and streamline construction
- ▶ Pedestrian ADA deficiencies will be corrected early in construction
- ▶ Peak period timing of the Waterview Ave temporary signals during construction to minimize delays and queues
- ▶ Regular monitoring of detour routes especially during peak periods to address issues



Maintenance of Traffic



Summary

- ▶ Ongoing coordination with Police / Fire / Rescue given the number of ramp closures
- ▶ Regular public outreach of upcoming lane shifts, temporary lane closures or ramp closures
 - Community, Local motorists, Long distance travelers
- ▶ MOT Goals
 - Promote work zone safety
 - Minimize vehicular and pedestrian work zone impacts while maximizing construction production
 - Keep stakeholders aware of upcoming traffic switches and impacts



Replacement of Three Bridges over Maryland 295

Questions & Answers



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November 14, 2018

